





Qy 841 tctagccaaaaaagagctcagttgggttttcacgagtggttccctgtgcttatattcagttct 900
Db 12841 TCTAGGC'AAAAGAAAAGCTCAGTTGGGTTTCACGAGTGTTCCCTGTGCTTATATTCAGTCT 12900
Qy 901 gtgectacatgtttctcatgcatgtctaacctgattttacctcttacctgtaacctarettta 960
Db 12901 GTGCCTACATGTTCTCATG'CATGTCTAACCTGATTACCTCTTACCTGTAA'ACTACCTTA 12960
Qy 961 tcatgtgcttttttaattgacagtcactcagccattttetaaqcaqatataatgattacett 1020
Db 12961 TCATGTGGCTTTTAAATTGAC'AGTCACTCAGCCATTTCAGGAGATATAGTATGATCTTT 13020
Qy 1021 caqaactcacattgacaaatgtataaaagatgacttaaggtgaaqtaaggaacaaatcaca 1080
Db 13021 CAGAAGTCACATTTGG'AAAGTGTAAAAAGATGACTTAAGGTGAAGTGAGGAC'AAAATCACA 13080
Qy 1081 ttctgcatactaacctatttttttctcccttttaaggtgctaaacttgcacctcatatcaca 1140
Db 13081 TTCTG'ATACTAA'CTATTTTTTCTCCCTTTAAGGTGCTAAACTTGCACTTCATGTCCA 13140
Qy 1141 ctcaqtaacaaqatatttgaacgttagagcacaagcctcactcagctctgaaaggttaatacaq 1200
Db 13141 CTCAGTAACAAGTATTGGGACGTAGAGCACAGCCTCACTCAGCTCTGAAAGGTAATACAG 13200
Qy 1201 cttgtgaaggaagtgaagcaacagtgccctttgcaattgtggatcttgagctctgctctca 1260
Db 13201 CTGTGAGGAAGTGAGCCAGCAGTGGCCTTTGCAATTGTGGATCTTGAGCTCTGCTCTCA 13260
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Qy 1321 qttcaaaattaaaaaagctgctgccaaagtacactgtgtggtctttctcccttgaatcetaaq 1380
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Qy 1381 gttctatccctcttcagagtcagttttctggtgctgctactttaaaaacacagctcacaag 1440
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Qy 1441 aataactaacttgcataaatatggagaaaaactcaatagggttcaggggaqgttctgccaq 1500
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Qy 1561 cacattccaaattttaaataaaaagcatttactcaattattataaaacacatatttataaa 1620
Db 13561 CACATTC'AAATTTTAAATAAAAAGCATTTACTCAATTATTATAAAACAACATATTATAAAA 13620
Qy 1621 agatgaaccacacacaaaggtcatcaaaaacacctttttataaattagataaattctacctgt 1680
Db 13621 AGATGAACCACAC'CAAAGGTCATCAAAAACACCTTTTATAAATTAGATAAATTCACCTGT 13680



FEATURES
source

Query Match	44/92	Score = 734.4	DB Size	10
Host Local Similarity	92/92	Score = 1004	No. 13e-145	
Matches	745	Conservative	1	1

This clone (JkFZP586C423) is available at the RZPD in Berlin. Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY. Email: clone@rzpd.de Further



XX

[illegible]

15 April 1999

Genotype Zentech 4.5
Copyright (c) 1994 - 2000 CompuGen Ltd.

Genotype Zentech 4.5

February 12, 2001, 14:21:41 : Search time 1842.64 Seconds

(all found alignments)
3488/974 Million cell updates/sec

Genotype Zentech 4.5

Search time

1842.64

Search time 1842.64 Seconds

Genotype Zentech 4.5

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4: gb_081124
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7: gb_081127
8: gb_081128
9: gb_081129
10: gb_081130
11: gb_081131
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116: gb_081193

[illegible]

[illegible]

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Definition	EST, mRNA sequence.				
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Version	A1436191.1	GI:4308458			
Keywords	EST.				
Source	human.				
Organism	Homo sapiens.				
Remarks	Molecular: Choroid plexus; Cranial; Vertebral; Gastrointestinal; Mammalian; Embryonal; Primates; Catarrhini; Hominoidea; Homo.				
Reference	1. (bases 1 to 511) H. Nakamura et al., <i>FEBS Lett.</i> 420:1-6 (1998).				
Author	National Cancer Institute, Cancer Genome Anatomy Project (CGAP).				
Title	Tumor Suppressor Index				
Project	Submitted (1997)				
Contact	Robert Strausberg, Ph.D.				
	TEL: (301) 496-1570				
	E-mail: Robert.Strausberg@nih.gov				
	This clone is available for \$3.00 from the NIH. For more information, please contact the				
	IMM8 Resource Team (info-imm8@nih.gov) for further information.				
	Insert length: 644 Std Error: 0.00				
	Seq. method: 400bp from Gibco				
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 ZH-8103^a "S. 177-2009, 22"
 ZH-8104^a "Pooled human melanocyte, fetal heart, and
 pregnant uterus"
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Best Local Similarity	99.88;	Pred. No. 2.7e-114;		
Matches 510;	Conservative 1;	Indels 0;	Gaps 0;	

[illegible]

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U3	1.1	U3	Human	1290	59.0	13-DEC-1999	U3	1290	59.0
U4	1.1	U4	Human	1290	59.0	13-DEC-1999	U4	1290	59.0
U5	1.1	U5	Human	1290	59.0	13-DEC-1999	U5	1290	59.0
U6	1.1	U6	Human	1290	59.0	13-DEC-1999	U6	1290	59.0
U7	1.1	U7	Human	1290	59.0	13-DEC-1999	U7	1290	59.0
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U10	1.1	U10	Human	1290	59.0	13-DEC-1999	U10	1290	59.0
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JOURNAL
OF THE
NATIONAL
CANCER INSTITUTE

REFERENCE
ARTICLE
TITLE

RESEARCH OF COLONIAL PROSTATE ENDOCRINE VERIFICATION Endocrinology
Mammalian Pathology Primates Carcinoma Hematology Hemato-
I (Bases 1 to 509)
P.O. Box 1711 www.ncbi.nlm.nih.gov
National Cancer Institute Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contacted Robert Strausberg, Ph.D.
Tel.: (601) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: Christopher Moskalek, M.D., Ph.D., Michael R.
Emmett Jones, M.D., Ph.D.
cDNA Library Preparation: M. Emilio Soares, Ph.D.,
cDNA Library Arrayed by: Greg Johnson, Ph.D.,
RNA Sequencing by: Michelle D. Perry, Ph.D.
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.C.-C.G.A.P. Home Page at:
www.fda.gov/oc/bio/bioinformatics.html
Seq format: .gbff from GDB
High quality sequence step:446.

145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

RESULT 12

AA209924

496 bp

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Method: fastest search method SW method

Run on: February 12, 2001, 14:09:11 Search time 8914.24 seconds

(without alignments) 2137.114 Million total updates/sec

File: us-09-479-145-2

Footprint: 1680

Sequences: 1116454 seqs, 253887160 positions

Sorted Index: IDENTIFY, N5

Capex: 10.6, Capex: 1.0

Method: 1116454 seqs, 253887160 positions 2236256

Minimum hit seq length: 0

Maximum hit seq length: 200000000

Post processing: Minimum Match 0%

Listing first 45 summaries

Database:	Summary:
1: db_Pat1*	
2: db_Pat2*	
3: db_Pat3*	
4: db_Pat4*	
5: db_Pat5*	
6: db_Pat6*	
7: db_Pat7*	
8: db_Pat8*	
9: db_Pat9*	
10: db_Pat10*	
11: db_Pat11*	
12: db_Pat12*	
13: db_Pat13*	
14: db_Pat14*	
15: db_Pat15*	
16: db_Pat16*	
17: db_Pat17*	
18: db_Pat18*	
19: db_Pat19*	
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27: db_Pat27*	
28: db_Pat28*	
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31: db_Pat31*	
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73: db_Pat73*
74: db_Pat74*
75: db_Pat75*
76: db_Pat76*
77: db_Pat77*
78: db_Pat78*
79: db_Pat79*
80: db_Pat80*
81: db_Pat81*
82: db_Pat82*
83: db_Pat83*
84: db_Pat84*
85: db_Pat85*

Prod. No. is the number of results produced by that score greater than or equal to the score of the test and is derived by dividing the total score by the

SEARCHES

Result No.	Score	Query Match	Length	Prod. No.	Score
1	1680	100.0	118279	0	1680
2	1851	80.4	21079	0	1851
3	744.4	43.7	744	0	744.4
4	676.4	40.3	171639	0	676.4
5	308.8	18.4	163578	0	308.8
6	277.8	16.5	486	0	277.8
7	183.6	10.9	139	0	183.6
8	141	8.4	14	0	141
9	141	8.4	14	0	141
10	141	8.4	14	0	141
11	103	6.1	129	0	103
12	56.2	3.3	19292	0	56.2
13	55	3.3	2412	0	55
14	49.4	2.9	149752	0	49.4
15	49	2.9	236141	0	49
16	48.6	2.9	14454	0	48.6
17	47.6	2.8	147164	0	47.6
18	46.8	2.8	142915	0	46.8
19	46.4	2.8	153098	0	46.4
20	45.4	2.7	155477	0	45.4
21	45.4	2.7	166239	0	45.4

Author(s): Kozlov, S., Hudson, J., Lipshutz, K., Chee, M., and
Lander, E.S.
Title: Large scale identification, mapping, and genotyping of
single nucleotide polymorphisms in the human genome
Genome Res. 6(1996): 1072-1082 (1996)

Journal: 98248615
Medline:
Comment: Synonyms: (1, EST15781)
Contact: Thomas Hudson
Whitehead Institute/MIT, Center for Genome Research,
Whitehead Institute for Biomedical Research,
9 Cambridge Center, Cambridge MA 02142 USA
Tel: 617 252 1300
Fax: 617 252 1302
Email: thudson@genome.wi.mit.edu
Primer A: GCGATGACCTTTTAAATTT
Primer B: TGTCAGCAATGACATGAC
STS size: 142
PCR product:

Preamp: 94 degrees C for 4.00 minutes
Denaturation: 94 degrees C for 50.0 seconds
Annealing: 58 degrees C for 1.50 minutes
Polymerization: 72 degrees C for 1.00 minutes
PCR cycles: 30
Thermal cycler: custom built by IAS, Costar, Cambridge MA

Protocol:
Template: 10 ng
Primer: each 5 pm
dNTPs: 4 mM
Total Polymerase: 0.5 U
Total Vol: 20 ul

Buffer:
MgCl2: 1.5 mM
KCl: 50 mM
Tris-HCl: 10 mM
pH: 8.3
Total Vol: 20 ul

Features:
Source: Location/Qualifiers
1..142
/organism="Homo sapiens"
/db_xref="taxon:9606"
/map="7.60 cR from top of Chr17 linkage group"
/feature="118 "Human RefSeq"
/note="STS derived from sequences in dbEST and the
unique collection."

STS:
Primer_Pbind 1..21
Primer_Mbind 36..44
BASE COUNT 41 a 36 c 26 g 48 t 1 others
ORIGIN

Query Match: 8.48; Score 141; DB 75; Length 142;
Best Local Similarity: 93.38; Pred. No. 6e 20;
Matches 141; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Query Match: 8.48; Score 141; DB 75; Length 142;
Best Local Similarity: 93.38; Pred. No. 6e 20;
Matches 141; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

RESULT 10
659 607/ 142 bp DNA STS 30 MAR 2000
LOCUS 659 607 142 bp Human homo sapiens STS genomic sequence tagged site.
ACCESSION 659 607

Version: 659 607 1 01:54:24626
Keywords:
Source: human
Organism: Homo sapiens

Reference: 1 (bases 1 to 142)
Authors: Eickholt, E., Kozlov, S., Chee, M., Cravatta, V., Lipshutz, K., Lander, E.S., and Chee, M.
Title: Large scale identification, mapping, and genotyping of
single nucleotide polymorphisms in the human genome
Genome Res. 6(1996): 1072-1082 (1996)

Journal: 98248615
Medline:
Comment: Synonyms: (1, EST15781)
Contact: Michael O'Leary, David H. Cox
Stanford Human Genome Center
Stanford University School of Medicine
4005 Miranda Ave., 2nd Fl., Palo Alto, CA 94025, USA
Tel: (650) 320 5800
Fax: (650) 320 5801
Email: o'leary@shgc.stanford.edu
Primer A: TGAACATCTCTTCTGACGACACCA
Primer B: GCTTTCGCAATCTGATCTCTT
STS size: 100
PCR product:

Preamp: 95 degrees C for 10 minutes
Denaturation: 94 degrees C for 30 seconds
Annealing: 60 degrees C for 30 seconds
Polymerization: 72 degrees C for 24 seconds
PCR cycles: 30
Thermal cycler: Perkin Elmer 9700

Protocol:
Template: 45 ng
Primer: each 1 uM
dNTPs: each 200 uM
Ampliflag Gold Polymerase: 5 ul
Total Vol: 20 ul

Buffer:
MgCl2: 2.5 mM
KCl: 50 mM
Tris-HCl: 10 mM
pH: 8.3
Total Vol: 20 ul

Features:
Source: Location/Qualifiers
1..142
/organism="Homo sapiens"
/db_xref="taxon:9606"
/map="17"
/feature="118 "Human"
/note="STS derived from sequences in dbEST and the
unique collection."

STS:
Primer_Pbind 1..21
Primer_Mbind 36..44
BASE COUNT 41 a 36 c 26 g 48 t 1 others
ORIGIN

Query Match: 8.48; Score 141; DB 75; Length 142;
Best Local Similarity: 93.38; Pred. No. 6e 20;
Matches 141; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Query Match: 8.48; Score 141; DB 75; Length 142;
Best Local Similarity: 93.38; Pred. No. 6e 20;
Matches 141; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Query Match: 8.48; Score 141; DB 75; Length 142;
Best Local Similarity: 93.38; Pred. No. 6e 20;
Matches 141; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

